

Integrated Open Source Application of the Emergency Data Exchange Language Resource Messaging 1.0 Specification (IOSA-EDXL-RM)

http://sourceforge.net/projects/iosa-edxl-rm/

Presented by Rex Brooks



- Sample Implementation Aimed at Developers for Adaptation to Customized Installations
- Provide all Required and Most Optional Elements
- Provide Minimum Database with Companion DB Management Application
- Provide Basis for Jurisdictions to Understand Basic EDXL Concepts of Distribution Element (EDXL-DE) with Content Payloads such as EDXL-RM and EDXL-HAVE
- Provide Basis for Combining Geospatial Applications with EDXL-RM
- Provide Basis for Developing Graphical Interface that doesn't Require Operators to Spend Time Keyboarding Inputs During Exercises and Actual Incidents



The Role of Emerging Open Standards in the National Response Framework:



Standards Acronym List

- OASIS: Organization for the Advancement of Structured Information Standards
 - **♦** CAP: Common Alerting Protocol
 - **♦** EDXL-DE: Emergency Data Exchange Language Distribution Element
 - EDXL-RM: Emergency Data Exchange Language Resource Messaging
 - ◆ EDXL-HAVE: Emergency Data Exchange Language Hospital Availability Exchange
 - SOA-RM: Reference Model for Service Oriented Architecture
 - SOA-RA: Reference Architecture nfor Service Oriented Architecture
 - ebXML Registry-Repository: Electronic Business using eXtensible Markup Language
 - **◆ CIQ: Customer Information Quality**
 - oBIX: Open Building Information Xchange
- Open Geospatial Consortium
 - **♦** GML: Geography Markup Language
 - 'geo-oasis': Profile of GML for use with OASIS Specifications
 - ♦ SensorML: Sensor Markup Language
 - CityGML: City Geography Markup Language
- Web 3D Consortium
 - ◆ X3D: ISO standard XML-based file format for representing 3D computer graphics
 - ◆ GeoX3D: GeoPositionInterpolator Node of X3D
- Miscellaneous
 - BIM: Building Information Modeling
 - ◆ NBIMS: National Building Information Modeling Standard



What are Emerging Standards?

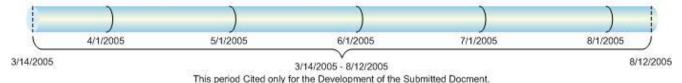
- 'Emerging' Means 'Becoming Manifest' or 'Becoming Known' Sounds 'Sudden'
- OASIS Conducts Approval Ballot October 16-31, 2008 for EDXL-RM 1.0 and EDXL-HAVE 1.0
- First Submissions to OASIS Emergency Mangement Technical Committee (OASIS EM TC) in August, 2005
- 'Emerging' Not Necessarily 'Disruptive,' can be 'Well-Timed'
 When Business & Public Prepared for 'Emerging'
 Technology

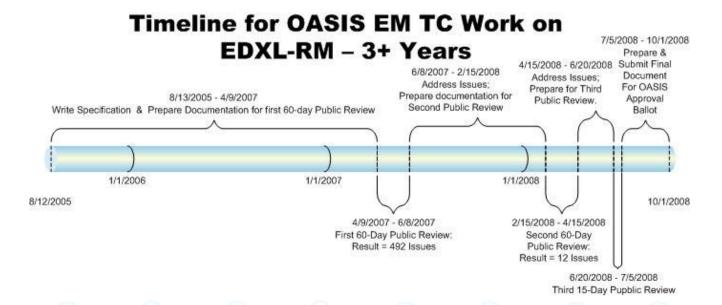




EDXL-RM Timelines

Timeline for Practitioner Subject Matter Expert Group – EDXL Project Team – 5 Months







- OASIS Customer Information Quality (CIQ) Specifications
 Used in EDXL-RM & EDXL-HAVE
 - ◆ Name (extensible Name Language xNL),
 - Address (extensible Address Language xAL),
 - Name and Address (extensible Name and Address Language xNAL) &
 - **◆ Party (extensible Party Information Language xPIL)**



Emergency Management Standards Support National Response Framework

- EDXL-RM & EDXL-HAVE Provide Measurable Resource Parameters for Readiness, Preparedness Web 2.0 Analytics
- EDXL-Reference Information Model (EDXL-RIM) to Add Ontology of EDXL-Family for Semantic Web Support
- EDXL-RIM to Provide 'Blueprint' Level of Abstraction, to Implement SOA Reference Architecture
 - ◆ SOA Reference Architecture Subcommittee Working 1st Public Review Issues Now
- EDXL-RIM Provides Explanation of EDXL Methods such as Keyword-Identified 'ValueListURN-Value' Pairs
 - ◆ Aid for New Specifications and New Versions in EDXL-Family





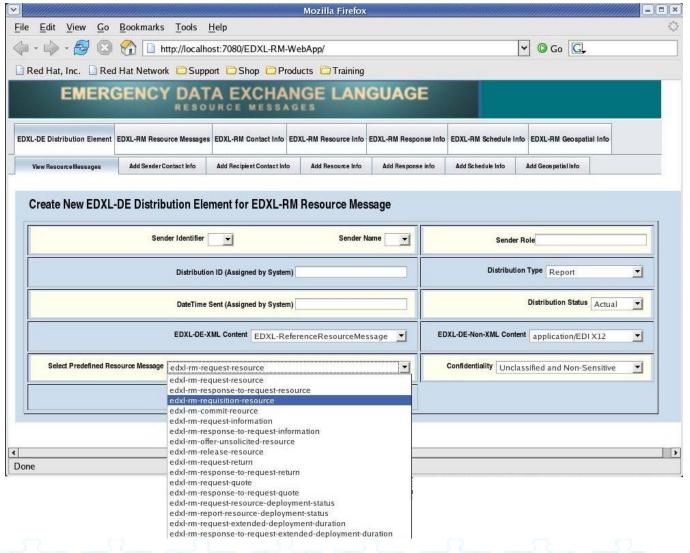
Next Steps in Standards

OASIS EM TC:

- ◆ Profiles such as the Emergency Alert System (EAS)-CAP Profile Under Development
- Extensions
- **◆ EDXL-Situation Reporting in the Practitioner Steering Group Now**
- **◆ EDXL-Asset Tracking Under Consideration**
- ♦ Next Versions: CAP 1.2 or 2.0 (Undecided); EDXL-DE 2.0
- Open Geospatial Consortium
 - ◆ 'Geo-OASIS' Profile of GML for use with OASIS Standards



Start Page of EDXL-RM Sample Implementation: EDXL-DE



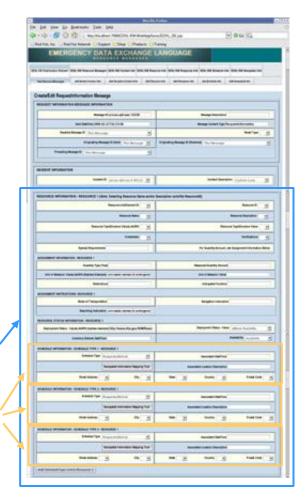


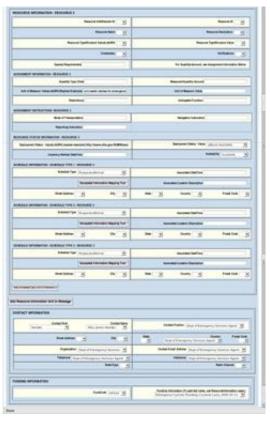
EDXL-RM RequestInformation Message Page

Messages May
Contain Multiple
Resource Units &
Resource May
Contain Multiple
ScheduleTypes

Sample Implementation: 3 Resource Units per Form

3 ScheduleTypes per Resource



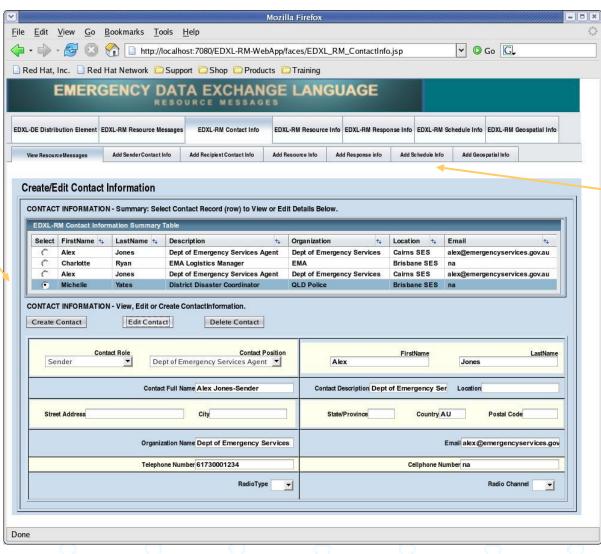


(Example Images
Show only 2
Resources in
Example Form
Page)



EDXL-RM Contact Information Page

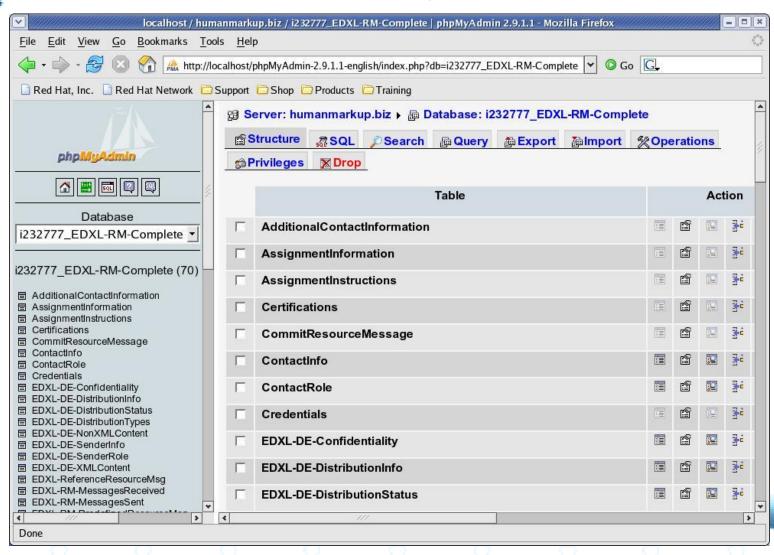
Individual
Records in
Contact,
Resource,
Response,
Schedule Info
Categories can
be Created, Edited
and Deleted from
Their Category
Pages, (Contact
Info Shown as
Example.)



Individual
Records can be
Selected through
their respective
Add-Info Page
for including in
the EDXL-RM
Message that is
Being Created



EDXL-RM-Complete MySQL Database





Participants

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Knowledge Services

